

What is claimed is:

1. A susceptor supporting construction having a susceptor for heating a member to be processed and a supporting member, in which an inner space is arranged, connected to the susceptor, wherein, a chamber having an opening is connected to the supporting member, the opening of the chamber is communicated with the inner space of the supporting member, and the inner space of the supporting member is sealed in an airtight manner with respect to an inner space of the chamber, comprising the supporting member further having a tubular main portion, a diameter extending portion arranged at an end portion thereof to which the susceptor is faced, and one or more continuous round portions arranged between the main portion and the diameter extending portion, when viewed by an outer profile of a longitudinal section of the supporting member.

2. The susceptor supporting construction according to claim 1, wherein a curvature radius of the round portion is not less than 3 mm and not more than 30 mm.

3. The susceptor supporting construction according to claim 1, wherein a straight portion extending in a direction crossing to a center axis of the supporting member is arranged between the diameter extending portion and the round portion, when viewed by an outer profile of a longitudinal section of the supporting member.

4. The susceptor supporting construction according to claim 1, wherein an another round portion is arranged between the diameter extending portion and a surface of the susceptor, when viewed by an outer profile of a longitudinal section of the supporting member.

5. The susceptor supporting construction according to claim 4, wherein at least a part of the another round portion is formed to the susceptor.

6. The susceptor supporting construction according to claim 1, wherein an outer side surface of the diameter extending portion is extended in a direction substantially parallel to a center axis of the supporting member, when viewed by an outer profile of a longitudinal section of the supporting member.

7. The susceptor supporting construction according to claim 1, wherein a material of the susceptor or the supporting member is ceramics.